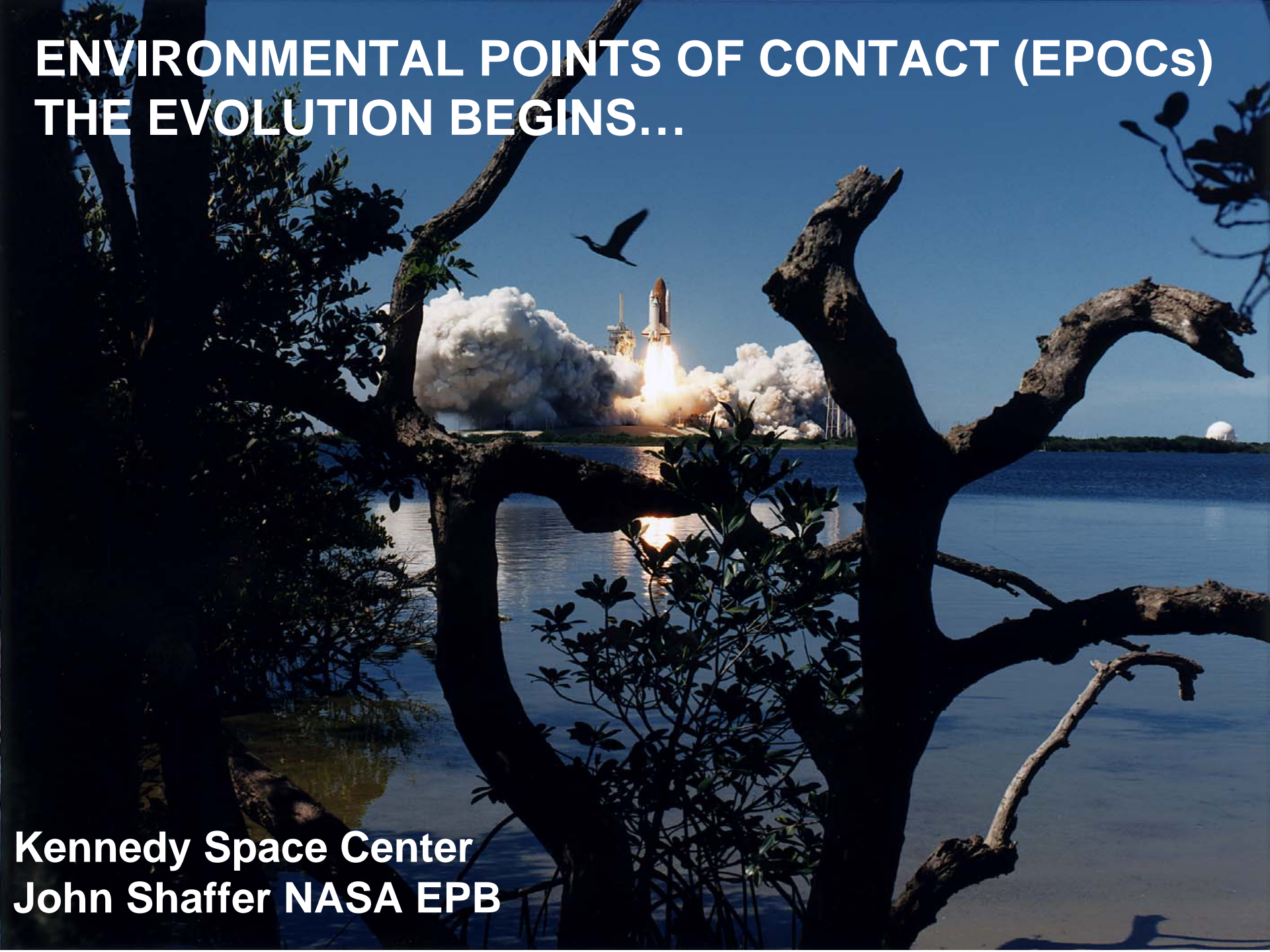


ENVIRONMENTAL POINTS OF CONTACT (EPOCs) THE EVOLUTION BEGINS...

**Kennedy Space Center
John Shaffer NASA EPB**



Long gone are the days of old..

Notice no launch pads yet!



1962-1966



Shuttle Landing Facility before...

After...
1975



Evolution of an EPOC



EPOCs...the early years

Design Process

- Identify potential impacts of project
- Provide alternatives
- Identify permits required
- Identify potential AP purchases
- Provide written comments

Procurement

- Environmental clauses
- Special Conditions

GOOD LUCK!



That just wasn't enough...



FDEP Notice of Violations with fines!

The Next Generation EPOC



- Construction Support

- Pre-work “nuts and bolts”

- Make contractor aware of requirements

- Ultimately the contractor is responsible to incorporate all the requirements outlined and detailed in the Design ON the jobsite

- Weekly status meetings

EPCRA Reporting

- Weekly site walk downs

C&D Reporting

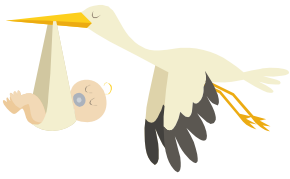
- Waste management

Recycling guidance

- SWPPP

Real Time support





Roles and responsibilities of EPOCs



- “Conception to ‘legal drinking age’” responsibility
 - PER, Study phase, Concept Validation
 - Identify potential environmental requirements
 - Design Reviews
 - Incorporate the requirements (AP, green products, etc)
 - Procurement
 - Final opportunity to make sure everything is clearly identified in the contract
 - Contract Award
 - Pre-work meeting
 - Bring gifts – permits, EPCRA forms, C&D forms provide face to face interaction.
 - Construction

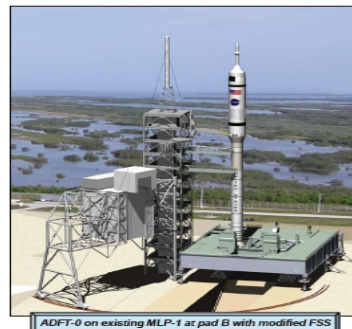


Present Day EPOCs



- The message is getting through!
 - O&C Revitalization
 - Recycling, waste diversion
 - New Life Support Facility (1st LEED Certified Facility at KSC)
 - Daily input into reaching Silver Certification
 - VAB Doors Waste Management Support
 - Identified proper waste handling procedures
 - Demolition Projects
 - Increased awareness, better recycling efforts
- EPOCs expanding their roles to include Constellation Program as it gets ramped up...
 - Lightning Protection
 - Launch Head Facility
 - O&C High Bay Mods
 - ML upgrades

Overview



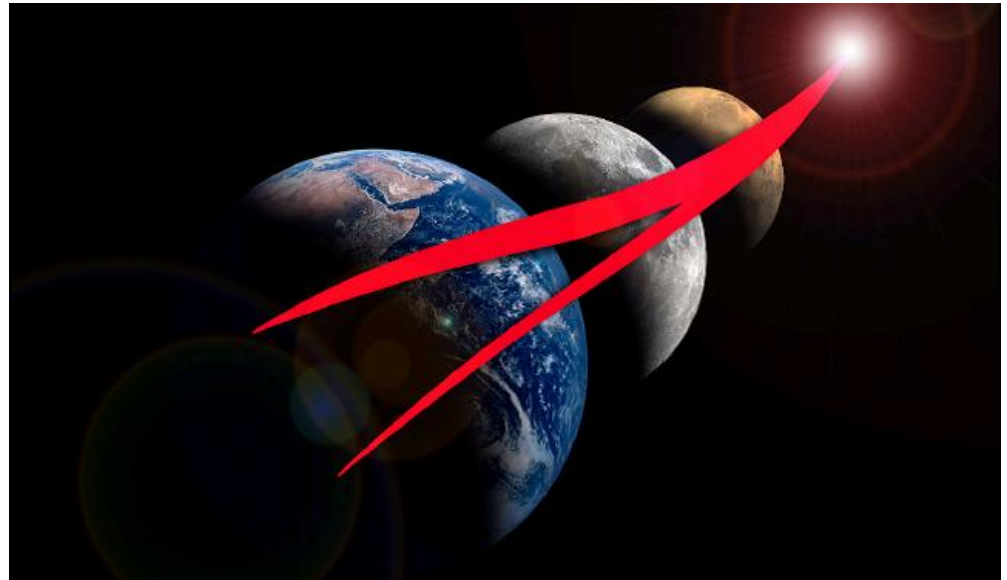
ADFT-0 on existing MLP-1 at pad B with modified FSS



CLV on new mobile launcher (ML) at clean pad B

What does the Future Hold?

- More projects
- More Awareness
- Better accountability
- Better compliance to regulations
- Better working relationship with CofF and Constellation
- Better overall Center operations
- NO VIOLATIONS!



Today's EPOCs

Incorporating sound environmental principles and concepts into design, and ensuring environmental compliance during construction

